

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P274259

Luminaire Tested: **LD4B10DE010W2N2765 EU4B1020W2N902765 4LBN0H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P274259  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-1)  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBN0H  
Description: PORTFOLIO 4" W2N RN DOWNLIGHT, NARROW DISTRIBUTION WITH HAZE FINISH  
Light Source: W2N 2700K-6500K CCT TUNING RANGE  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 672.0 lumens  
Efficiency: N/A  
Efficacy: 48.0 lumens/watt  
Spacing Criteria (0/90/45): 0.77 / 0.77 / 0.82  
Luminous Opening: Circular (Dia: 0.35' x H: 0')  
CIE Type: Direct

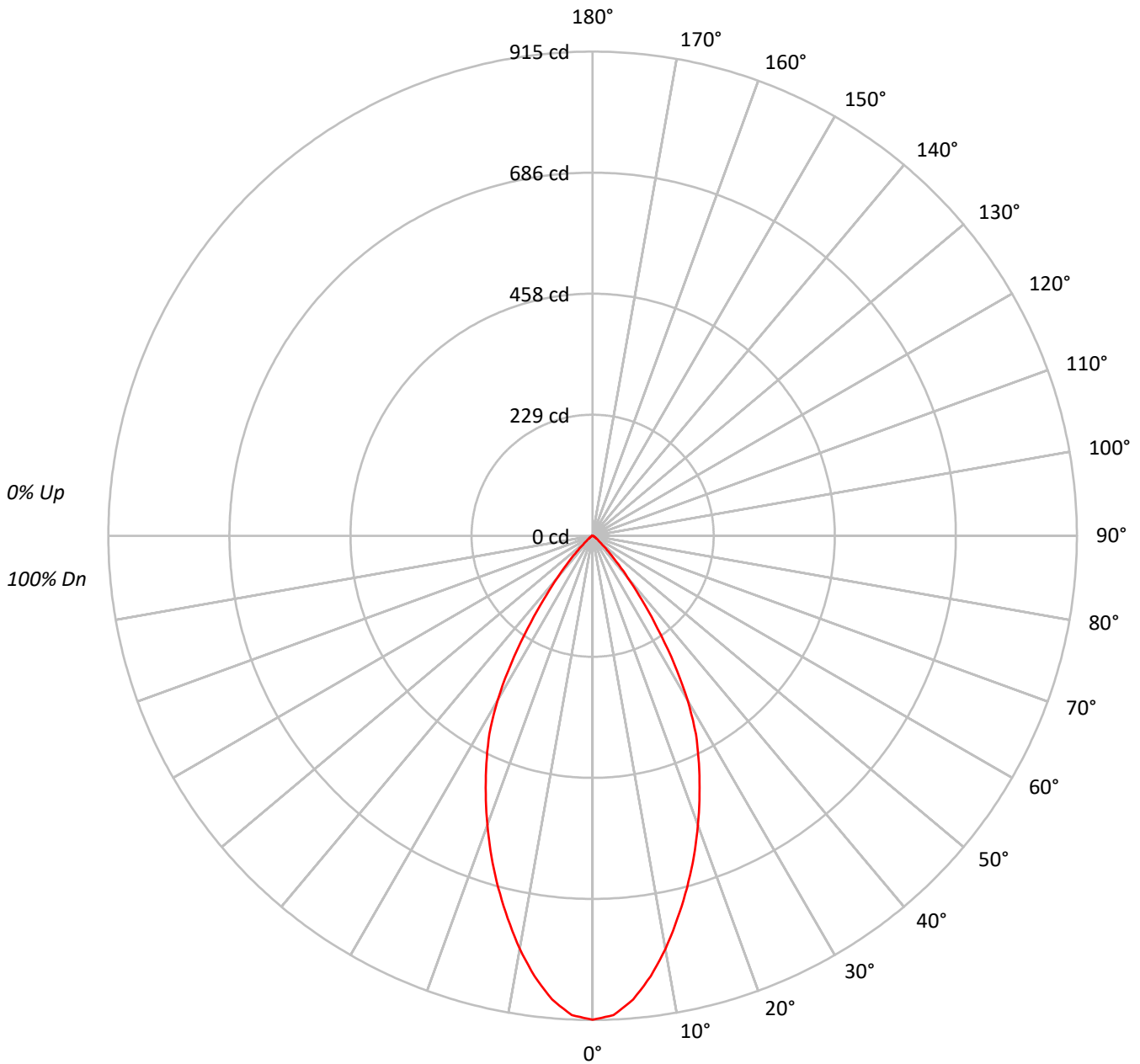
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



TEST NUMBER: P274259

CATALOG NUMBER: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBN0H

### Luminous Intensity Polar Plot





TEST NUMBER: P274259

CATALOG NUMBER: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBN0H

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	78	76
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	73	71
6	88	80	74	70	87	79	73	69	77	73	69	76	72	68	75	71	68	67
7	84	75	69	65	83	74	69	65	73	68	65	72	67	64	71	67	64	62
8	80	71	65	61	79	70	65	61	69	64	61	68	64	60	67	63	60	59
9	76	67	61	57	75	67	61	57	66	61	57	65	60	57	64	60	57	55
10	73	64	58	54	72	63	58	54	62	57	54	62	57	54	61	57	54	52

**AVERAGE LUMINANCE (cd/sqm):**

	0°
0°	99930
5°	96473
10°	87936
15°	77902
20°	67636
25°	57240
30°	45267
35°	28531
40°	14691
45°	6490
50°	2550
55°	1524
60°	874
65°	517
70°	319
75°	422
80°	0
85°	0



TEST NUMBER: P274259

CATALOG NUMBER: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBN0H

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.1	12.1
10°-20°	192.0	28.6
20°-30°	216.4	32.2
30°-40°	135.6	20.2
40°-50°	36.2	5.4
50°-60°	7.6	1.1
60°-70°	2.3	0.3
70°-80°	0.7	0.1
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	489.6	72.8
0°-40°	625.1	93.0
0°-60°	669.0	99.6
0°-90°	672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	672.0	100.0

**CANDELA DISTRIBUTION:**

	0°	Flux
0°	915	
5°	880	81
15°	689	192
25°	475	216
35°	214	136
45°	42	36
55°	8	8
65°	2	2
75°	1	1
85°	0	0
90°	0	



TEST NUMBER: P274259

CATALOG NUMBER: LD4B10DE010W2N2765 EU4B1020W2N902765 4LBN0H

**CANDELA DISTRIBUTION (FULL):**

0°	
0°	914.6
2.5°	906.6
5°	879.6
7.5°	839.6
10°	792.6
12.5°	740.7
15°	688.7
17.5°	635.7
20°	581.7
22.5°	527.8
25°	474.8
27.5°	422.8
30°	358.8
32.5°	286.9
35°	213.9
37.5°	151.9
40°	103.0
42.5°	67.0
45°	42.0
47.5°	24.0
50°	15.0
52.5°	11.0
55°	8.0
57.5°	6.0
60°	4.0
62.5°	3.0
65°	2.0
67.5°	2.0
70°	1.0
72.5°	1.0
75°	1.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0
90°	0.0



Report Generated By E9808895 / USPTCWHP6082093







— 0°-180°







(END OF REPORT)